Kentucky CTE

Computer Science: Introduction to Geographical Information Systems (GIS) 210241 (2026–2027)

Explain what GIS is and the practical applications used in this field. 1	1 Explain what GIS is and the practical applications used in this field. 1
Use GIS software to edit basic spatial and attribute data. 2	2 Use GIS software to edit basic spatial and attribute data. 2
Use GIS software to create and use basic geo-databases. 3	3 Use GIS software to create and use basic geo-databases. 3
Explain basic topics of GIS, such as spatial data and attribute data management. 4	4 Explain basic topics of GIS, such as spatial data and attribute data management. 4
Explain the human and organizational issues. 5	5 Explain the human and organizational issues. 5
Explain the differences between vector and raster data. 6	6 Explain the differences between vector and raster data. 6
Use GIS software to create basic query features. 7	7 Use GIS software to create basic query features. 7
Us bu	Skip to main content Ise GIS software to build basic graphs, reports and personal systems. 8

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Solve route problems from sets of interconnected lines using a network analysis program. 9

9 Solve route problems from sets of interconnected lines using a network analysis program. 9

Combine layers of GIS data and locate areas of special concern using a spatial analysis program. 10

10 Combine layers of GIS data and locate areas of special concern using a spatial analysis program. 10

Create 3-dimensional representations of landscapes and other surfaces using satellite and aerial photographic images using a 3D analysis program. 11

11 Create 3-dimensional representations of landscapes and other surfaces using satellite and aerial photographic images using a 3D analysis program. 11